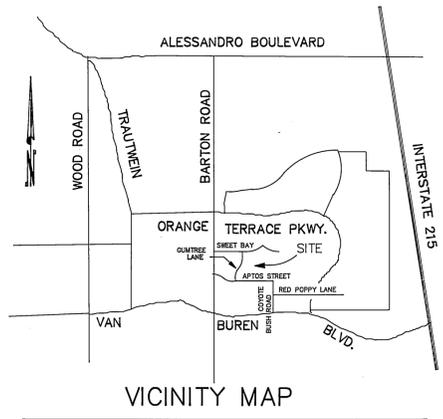
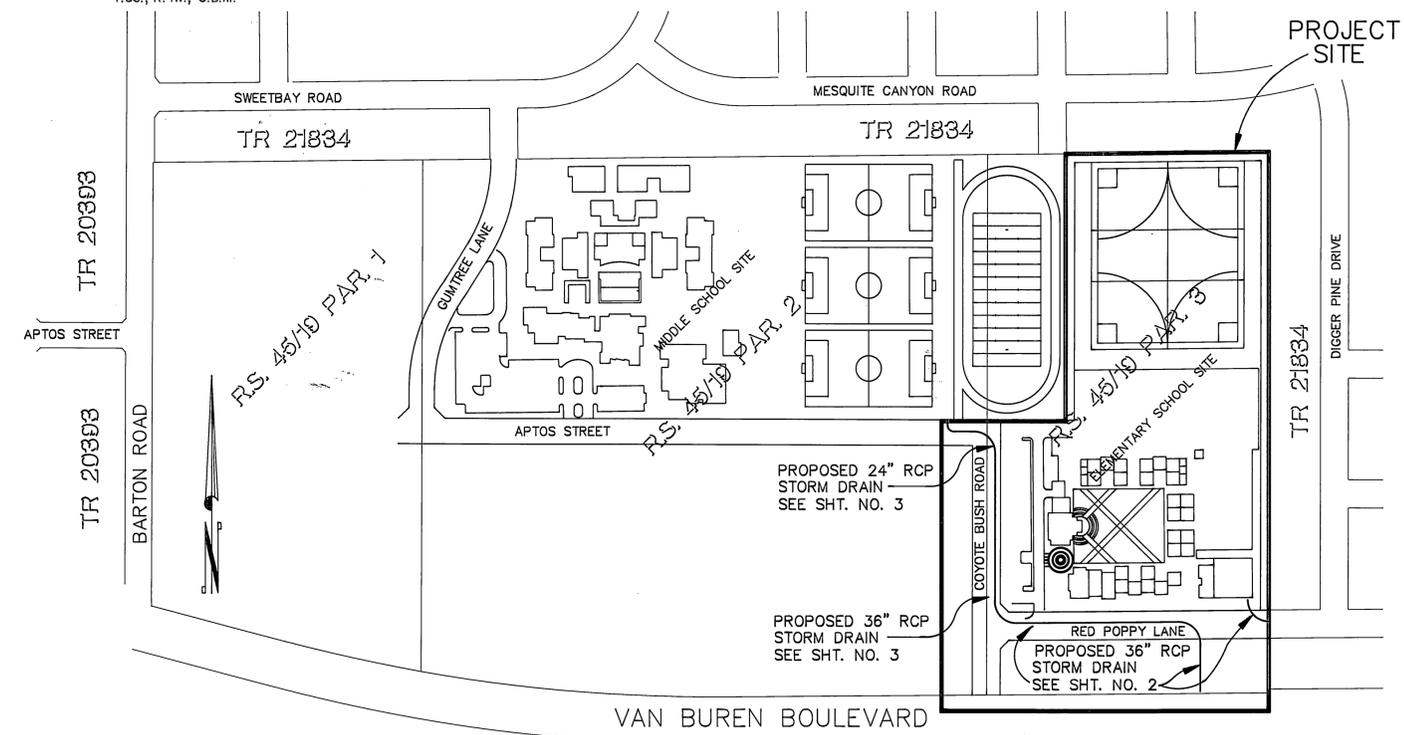


# ORANGECREST II ELEMENTARY SCHOOL STORM DRAIN IMPROVEMENT PLANS



N.T.S.  
THOMAS GUIDE PAGE 24 GRID C5  
T.3S., R.4W., S.B.M.



**INDEX MAP**  
SCALE 1" = 200'

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LINE "A" AND LINE "B"
3	LINE "A" AND CONNECTORS

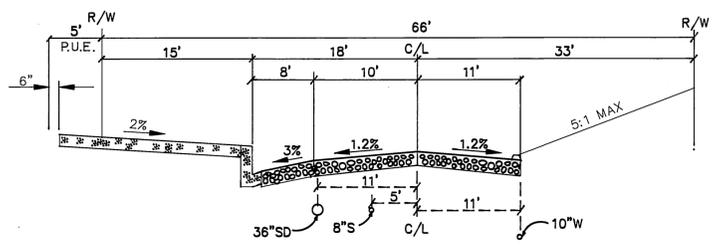
## CONSTRUCTION NOTES      QUANTITIES

- |   |           |
|---|-----------|
| ① CONSTRUCT MANHOLE "AX" PER CITY OF RIVERSIDE STD. DWG. NO. 430.           | 4 EA.     |
| ② CONSTRUCT MANHOLE "JM" PER CITY OF RIVERSIDE STD. DWG. NO. 432.           | 1 EA.     |
| ③ CONSTRUCT JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. NO. 421. | 1 EA.     |
| ④ CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. NO. 456.        | 2 EA.     |
| ⑤ CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405 (W=14').    | 1 EA.     |
| ⑥ CONSTRUCT 18" R.C.P. (D-2000).  | 46.56 LF  |
| ⑦ CONSTRUCT 24" R.C.P. (D-1350).  | 423.30 LF |
| ⑧ CONSTRUCT 36" R.C.P. (D-1350).  | 837.96 LF |
| ⑨ CONSTRUCT JUNCTION STRUCTURE "C" PER CITY OF RIVERSIDE STD. DWG. NO. 422. | 2 EA.     |
| ⑩ CONSTRUCT C.S.P. INLET PER CITY OF RIVERSIDE STD. DWG. NO. 412.           | 2 EA.     |
| ⑪ CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424.        | 1 EA.     |
| ⑫ REMOVE EXISTING BOX INLET.  | 1 EA.     |
| ⑬ CONSTRUCT MANHOLE "EZ" PER CITY OF RIVERSIDE STD. DWG. NO. 431.           | 1 EA.     |
| ⑭ REMOVE EXISTING STORM DRAIN.  | 5.8 LF    |

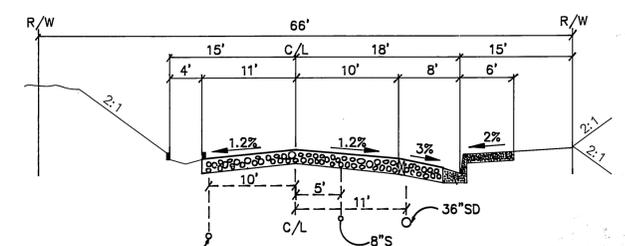
### STORM DRAIN NOTES:

- Quantities shown are for information only and the City of Riverside is not responsible for their accuracy.
- Construction shall be in accordance with the City of Riverside Dept. of Public Works, Standard Drawings, Standard Drawing No.-10, and the Standard Specifications for Public Works Construction, Current Edition.
- It shall be the responsibility of the contractor to clear the right of way in accordance with the provisions of law as it affects each utility including irrigation lines, gas lines and appurtenances and at no cost to the City.
- Notice to contractor. The existence and location of any underground utility pipes or structures shown on these plans were obtained by a search of the available records. To the best of our knowledge there are no existing utilities, except as shown on these plans. The contractor is required to take precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
- The private engineer signing these plans is responsible for assuring the accuracy and acceptability of the work hereon. In the event of discrepancies arising during construction, the private engineer shall be responsible for determining an acceptable solution and revising the plans for approval by the City.
- The contractor shall call in a locations request to UNDERGROUND SERVICE ALERT (USA), Phone No. 1-800-422-4133, two working days before digging. No construction permit will be issued by the Public Works Department involving excavation for underground facilities unless the applicant has been provided an Inquiry Identification Number by U.S.A.
- The developer shall be responsible for preserving or re-establishing and referencing survey monuments destroyed, disturbed or buried as a result of construction shown hereon.
- All embankment fill shall be compacted to minimum of 90% maximum dry density and shall be of an approved quality.
- Before the Rip-Rap is accepted, as placed, at the outlet of any drainage structure, it shall be tested under flows as close as possible to design conditions with water obtained from fire hydrants in the immediate area.
- All flagged elevations shall be staked in the field by the private engineer.
- Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.
- The concrete cover on the inside of all concrete pipe must be increased to provide a min. of 1.5" over the reinforcing when the design velocities exceed 20 fps. The concrete design strength in these reaches shall be:  
fc = 5000 psi. for velocities exceeding 20 fps. and  
fc = 6000 psi. for velocities exceeding 30 fps.
- Trench backfill to be per City of Riverside Std. No. 453.
- The contractor shall adjust manholes to final grade after paving is complete.
- Contractor is to verify existing storm drain elevations prior to construction.

**QUANTITY DISCLAIMER**  
QUANTITIES SHOWN HEREON ARE PROVIDED FOR BONDING PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO CONSTRUCTION.



**RED POPPY LANE  
TYPICAL SECTION**  
NOT TO SCALE



**COYOTE BUSH ROAD  
TYPICAL SECTION**  
NOT TO SCALE

REVIEWED BY:  
WESTERN MUNICIPAL WATER DISTRICT  
for Non-Interference compliance

SHEET 1 THROUGH 3  
*Shankh Shah* RCE 21643  
S.W. APPEL  
ASSOCIATE ENGINEER RCE 48109  
DATE: 4/2/94

Underground Service Alert  
Call: TOLL FREE  
1-800  
422-4133  
TWO WORKING DAYS BEFORE YOU DIG

SEAL COUNTY



PREPARED UNDER THE DIRECTION OF:  
*Daniel J. O'Rourke*  
DANIEL J. O'Rourke  
REGISTERED CIVIL ENGINEER NO. 47877  
EXPIRATION DATE: 12-31-95 DATE: 11-5-93

APPROVED BY:  
*Shankh Shah*  
FOR TRANSPORTATION DIRECTOR, RIVERSIDE COUNTY, CALIFORNIA  
R.C.E. NO. 22875 DATE: 12/31/97

**J.F. Davidson Associates, Inc.**  
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street Suite 300  
Riverside, CA 92502  
(951) 686-0844 FAX 909-686-5954

27349 Jefferson Suite 115  
P.O. Box 340  
Ontario, CA 91764  
(909) 844-2881  
(909) 874-7710 FAX 909-699-1981

RIV. BUS. TAX NUMBER 4994  
EXP. 12/31/93

SCALE AS SHOWN  
DATE OCT. 30, 1992

BENCHMARK: V.B. 10-64 ELEV: 1700.670  
BRASS DISK FLUSH & MARKED V.B. 10-64, 0.6 MI E ON VAN BUREN BLVD FROM INT VAN BUREN & WOOD RD 205' N OF VAN BUREN AT N.E. SIDE OF GRANITE BOULDERS ON TOP OF 3'X13'X18' BOULDER

**CITY OF RIVERSIDE  
PUBLIC WORKS DEPARTMENT**

APPROVED BY	DATE	BY	DATE
<i>Shankh Shah</i>	3/14/94	<i>Shankh Shah</i>	3/14/94
PARK DEPARTMENT		PUBLIC WORKS DIRECTOR	
TRAFFIC DIVISION			
CHEF P.W. ENGINEER	3/14/94		3/14/94

**CITY OF RIVERSIDE  
ORANGECREST II ELEMENTARY SCHOOL**

**TITLE SHEET  
STORM DRAIN IMPROVEMENT PLANS**

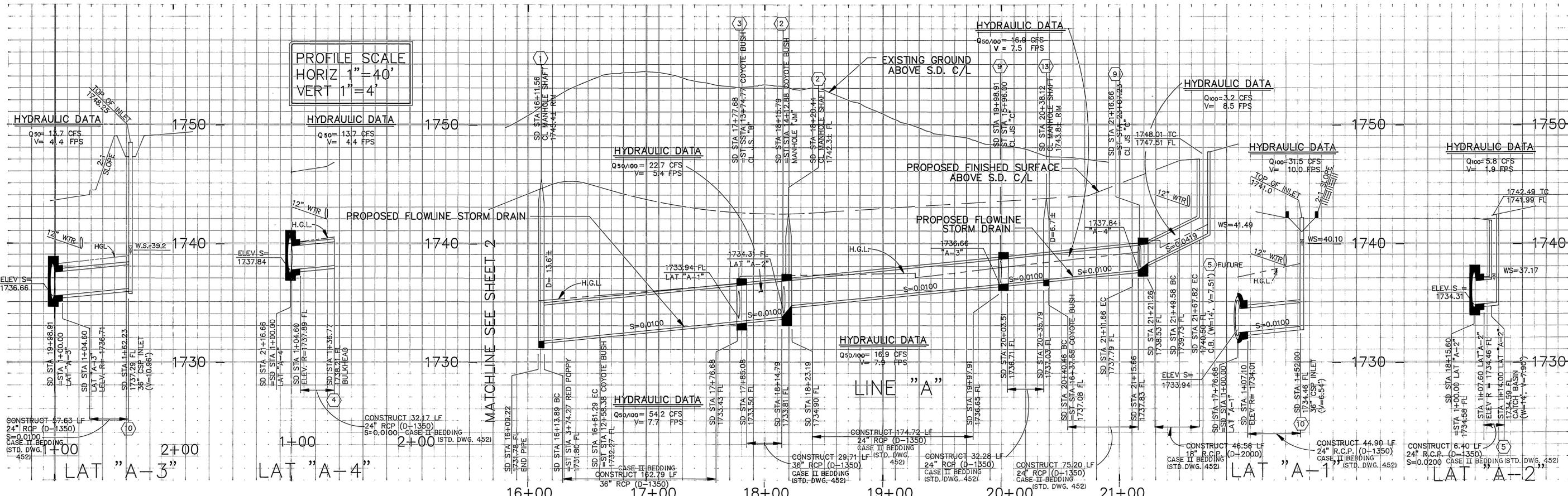
FOR R.U.S.D. (H.M.C.) W.O. 9112545

SHEET NO. 1  
OF 3 SHTS  
FILE NO. D-624

MS 3610

INDEXED 4-20-94 *lft* 8/24/93





**JUNCTION STRUCTURE "B"**  
SD STATION 17+77.68

A = 30'00"00"  
B = 24"  
C = 7.1'  
D = 36"  
E = 6.4'

**MANHOLE "JM"**  
SD STATION 18+15.79

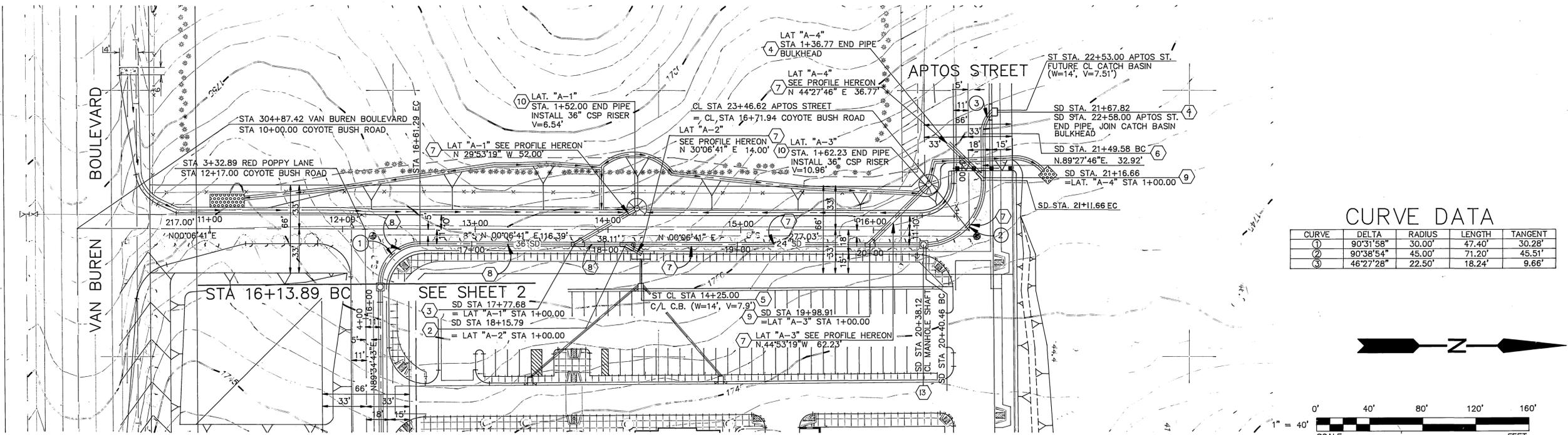
A = 30'00"00"  
B = 24"  
C = 7.6'  
D = 24"  
E = 7.4'  
L' = 8.4'

**JUNCTION STRUCTURE "C"**  
SD STATION 19+98.91

A = 45'00"00"  
B = 24"  
C = 4.6'  
D = 24"  
E = 4.6'  
L' = 5.6'

**JUNCTION STRUCTURE "C"**  
SD STATION 21+16.66

A = 45'00"00"  
B = 24"  
C = 4.6'  
D = 24"  
E = 4.6'  
L' = 5.6'



**CURVE DATA**

CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	90°31'58"	30.00'	47.40'	30.28'
2	90°38'54"	45.00'	71.20'	45.51'
3	46°27'28"	22.50'	18.24'	9.66'

**Underground Service Alert**  
Call: TOLL FREE  
1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE DIRECTION OF:  
*Daniel J. O'Rourke*  
DANIEL J. O'ROURKE  
REGISTERED CIVIL ENGINEER NO. 47677  
EXPIRATION DATE: 12-31-95 DATE: 11-5-93

**J.F. Davidson Associates, Inc.**  
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

RIV. BUS. TAX NUMBER 4994 EXP. 12/31/93

BENCHMARK: V.B. 10-64 ELEV. 1700.670  
BRASS DISK FLUSH & MARKED V.B. 10-64, 0.6 MI E ON VAN BUREN BLVD FROM INT VAN BUREN & WOOD RD 205' N OF VAN BUREN AT N.E. SIDE OF GRANITE BOULDERS ON TOP OF 3'X15'X18' BOULDER.

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**

APPROVED BY: [Signature] DATE: 3/15/94  
PRINCIPAL ENGINEER  
TRAFFIC DIVISION  
CHIEF P.W. ENGINEER

**CITY OF RIVERSIDE ORANGECREST II ELEMENTARY SCHOOL COYOTE BUSH ROAD**  
STA 16+13.89 TO STA 21+67.82  
STORM DRAIN IMPROVEMENT PLANS  
FOR R.U.S.D. (H.M.C.) W.O. 9112545

**MS 3610**

SHEET NO. 3  
C-4.3  
FILE NO. D-624  
DATE: 8/24/93

INDEXED 4-20-94 LHM